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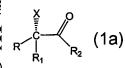
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(54) Title: CATALYTIC ASYMMETRIC SYNTHESIS OF OPTICALLY ACTIVE α-HALO-CARBONYL COMPOUNDS



$$\begin{array}{c}
X \\
C \\
R_1
\end{array}$$
(1b)

(57) Abstract: A process for the catalytic asymmetric synthesis of an optically active compound of the formula (la) or (lb): wherein R is an organic group; X is halogen; R_1 and R_2 which may the same or different represents H, or an organic group or R_1 and R_2 may be bridged together forming part of a ring system; R and R_2 may be bridged together forming part of a ring system; with the provisio that R and R_1 are different and R_2 , when different from H, is attached though a carbon-carbon bond, comprising the step of reacting a compound of the formula (2): with a halogenation agent in the presence of a catalytic amount of a chiral nitrogen containing organic compound.

